

Fig. 1

10036337-122801

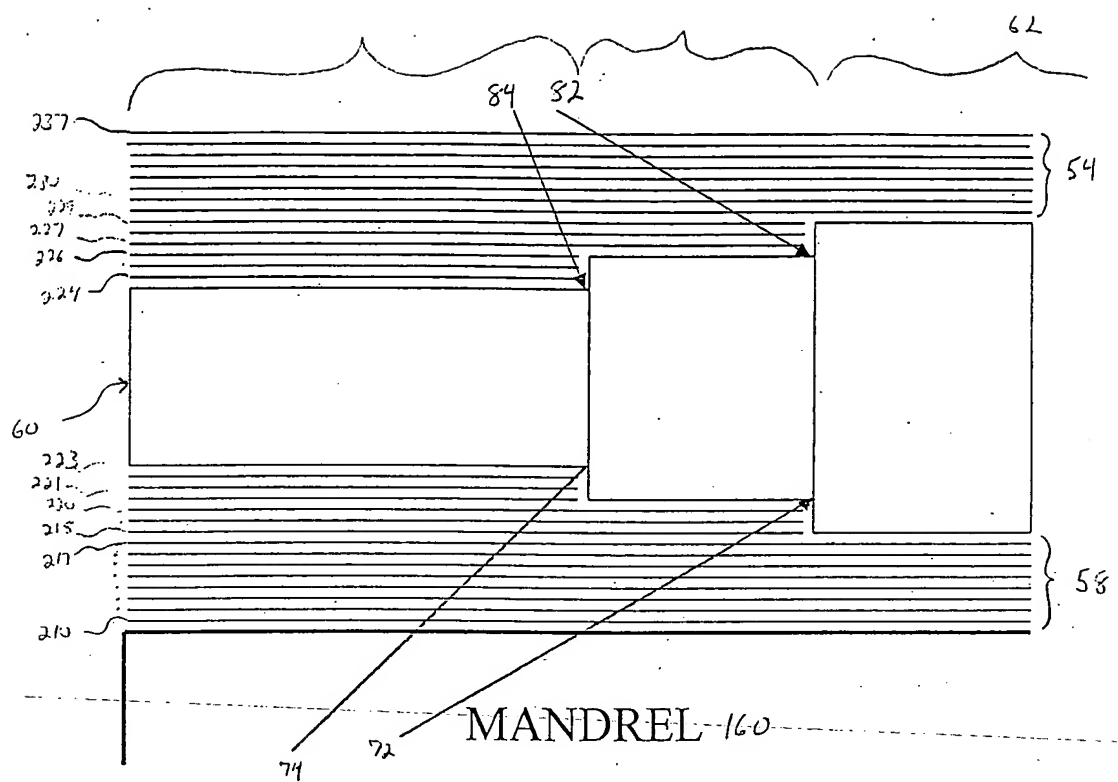


Fig. 2

1003623-122801

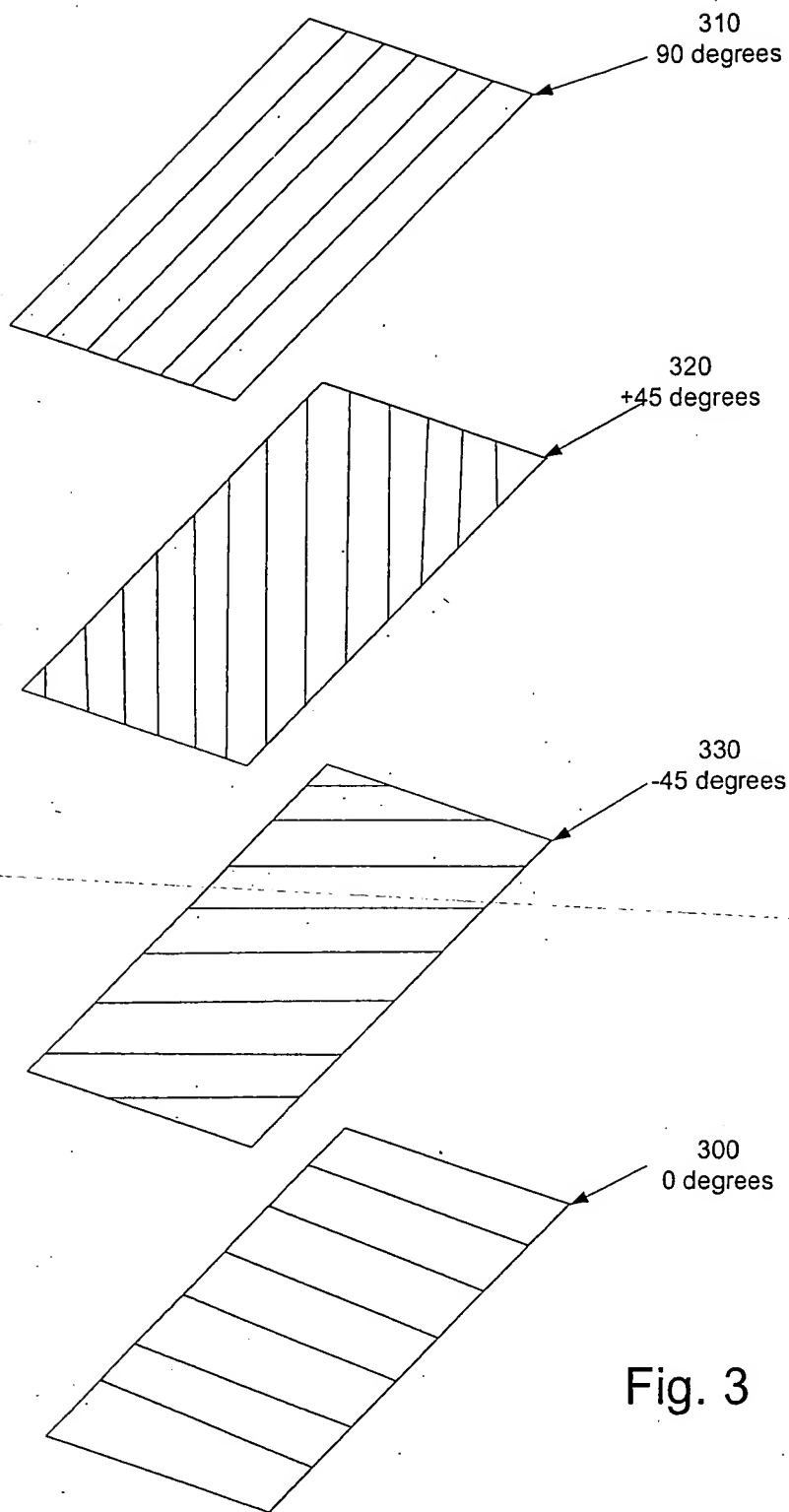


Fig. 3

FIG. 4

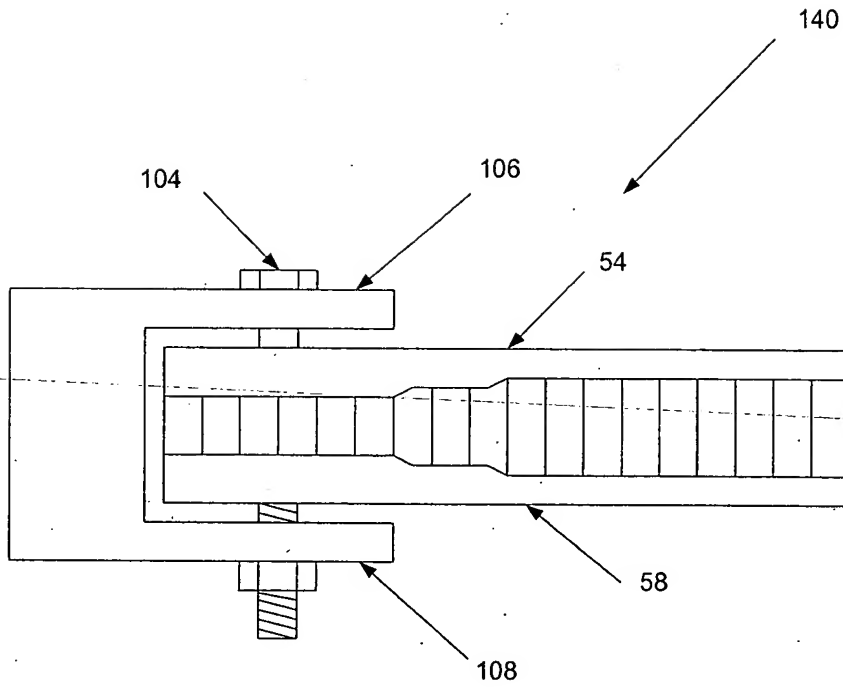


Fig. 4

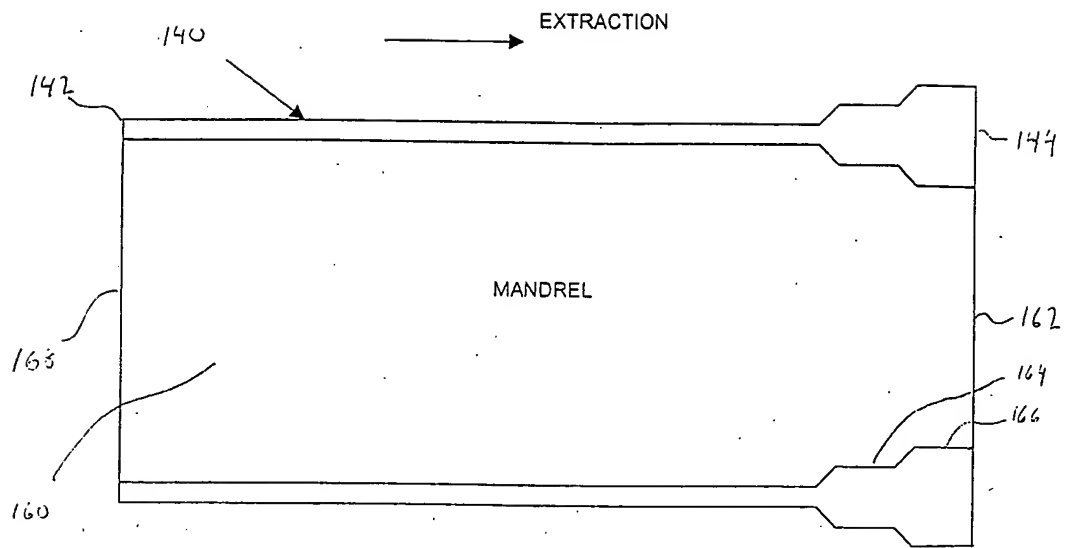


Fig. 5

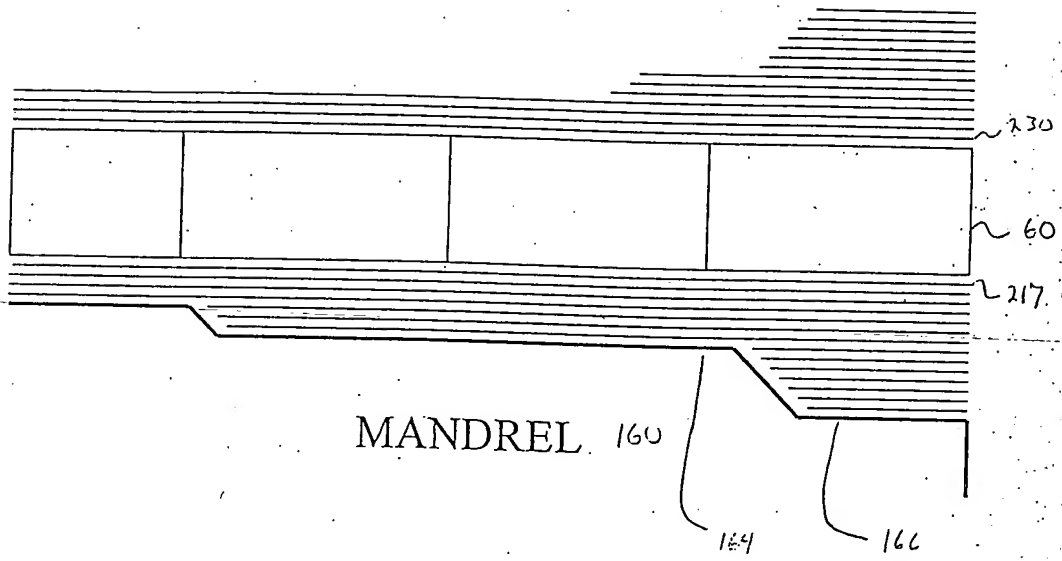


Fig. 6

FIG. 7

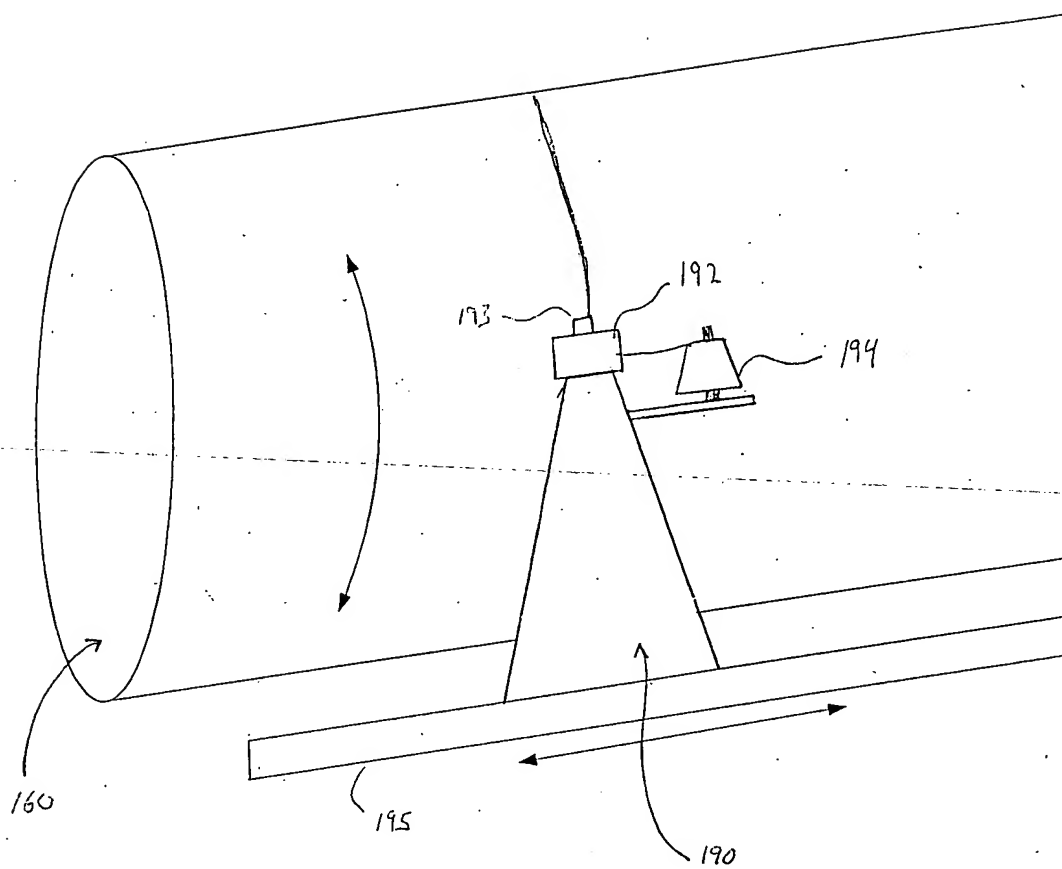


Fig. 7

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graph TD
    300[Determine spatial envelope for one or more sections of the composite sandwich structure.  
300] --> 310[Calculate structural requirements for each section of the composite sandwich structure.  
310]
    310 --> 320[Based on the structural requirements, determine stiffness, bearing, compressive strengths and other desired properties for each section of the composite sandwich structure.  
320]
    320 --> 330[Select appropriate materials to form the composite sandwich structure based on the structural requirements.  
330]
    330 --> 340[Determine relative proportions of the first and second face sheets and core for each section based on the spatial envelope, structural requirements and chosen materials.  
340]
    340 --> 350[Produce a design layout for the composite sandwich structure based on the chosen materials and relative proportions of those materials at each section.  
350]

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Fig. 8

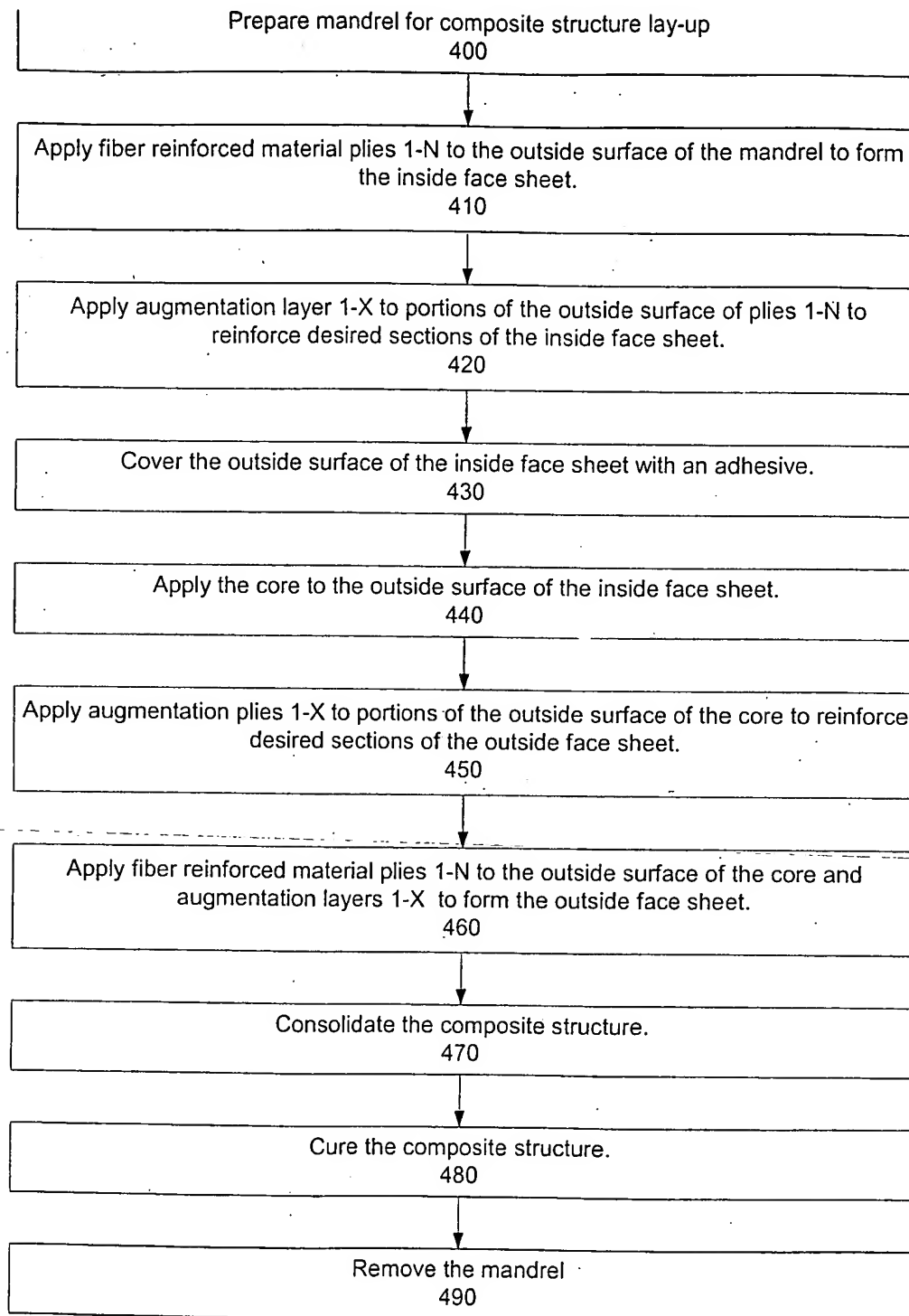


Fig. 9